

# Usage Guidelines of Sample Preparation Room

Venue: Room 103, Physical Analysis Laboratories, Sengen Site

## ■ Usage Time and Available Users

- This room is available from 9:00~16:30 on weekdays.  
(Available from 9:00~20:30 on weekdays for night users of NIMS members.)
- Only license holders can use licensed apparatuses.
- The license needs to be renewed every year.
- Regarding entering or exiting the room, please enter the room with your ID card for NIMS members. Please borrow or return the card key to the staff room (Room 101, Physical Analysis Laboratories) for the other users.

## ■ Reservation Rules and Usage Fee

- There are the apparatuses that require reservations and apparatuses that do not require reservations.
- **Apparatuses requiring reservations**
  - Model 691 PIPS
  - Dimple Grinder
  - ISOMET Low Speed Saw
  - Multiprep System
- Usage fee will be charged for "technical support" for hands-on training and "Common use" after getting a license.
- To use the apparatuses, you need to make a reservation in one-hour increments in advance through the reservation system.  
e.g. 10:30-12:00 :NG / 10:00-12:00 :OK
- The reserved time slots in the reservation system will be directly reflected in the usage fee. You can separate the time slots, not to include break time.
- No limit to the number of reservation slot per day.
- Cancellations or changes can be made up to the day before the reservation day.
- If you cancel or change your reservation at short notice, please contact the office (tem@nims.gp.jp) and the staff in charge.
- **The apparatuses that do not require reservations**
  - The other apparatuses such as coaters may be used without reservation by licensed users of the equipment. However, please note that the timing of use may overlap with other users.
  - Usage fee will charge for "technical assistance" for hands-on training, but there is no charge for "common use" after getting a license.

## List of TEM Sample Preparation Apparatus

### Reservations required



#### ■ ISOMET Low Speed Saw

- Low Speed / light load
- 4-inch diamond blade
- Blade speed: 0 to 300 rpm



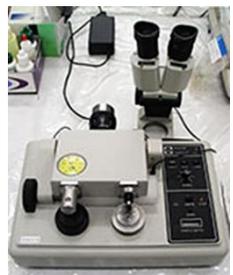
#### ■ Model 691 PIPS

- Acc. voltage: 0.1 to 6 kV
- Milling angle:  $\pm 10^\circ$
- Types of Gas: Argon
- Liquid Nitrogen (LN2) Cold Stag



#### ■ Multiprep System

- Angular adjustments: 0 to 10 degrees
- Platen rotation speed: 5 to 350 rpm
- Sample load: 0 to 600 g
- Digital dial indicator



#### ■ Dimple Grinder

- Grinding wheel diameter: 15 mm
- Grinding wheel load: 0 to 40 g
- Grinding wheel speed: 0 to 600 rpm
- Initial specimen thickness: less than 200  $\mu\text{m}$
- Grinding can be stopped at set thickness automatically.

### No reservation required



- C Coater JEC-560
- Pt Coater JFC-1600
- Au Coater JFC-1500
- Os Coater HPC-1SW
- Evaporation deposition equipment SVC-700 (Need to bring your evaporation source.)
- Hydrophilization treatment equipment DII-29020HD
- Others (hot plate etc.)